

FIG. 1

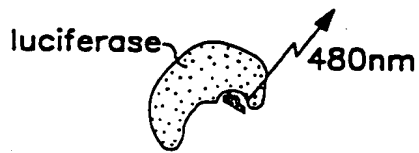


FIG. 2A

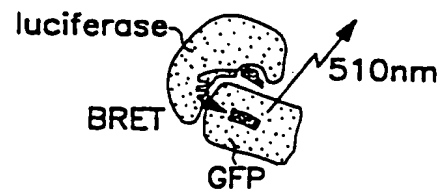


FIG. 2C

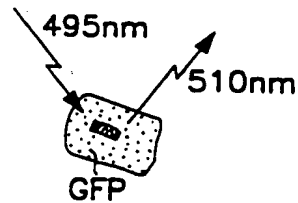


FIG. 2B

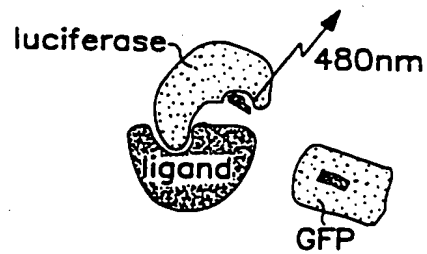


FIG. 2D

BRET Sensor Architectures

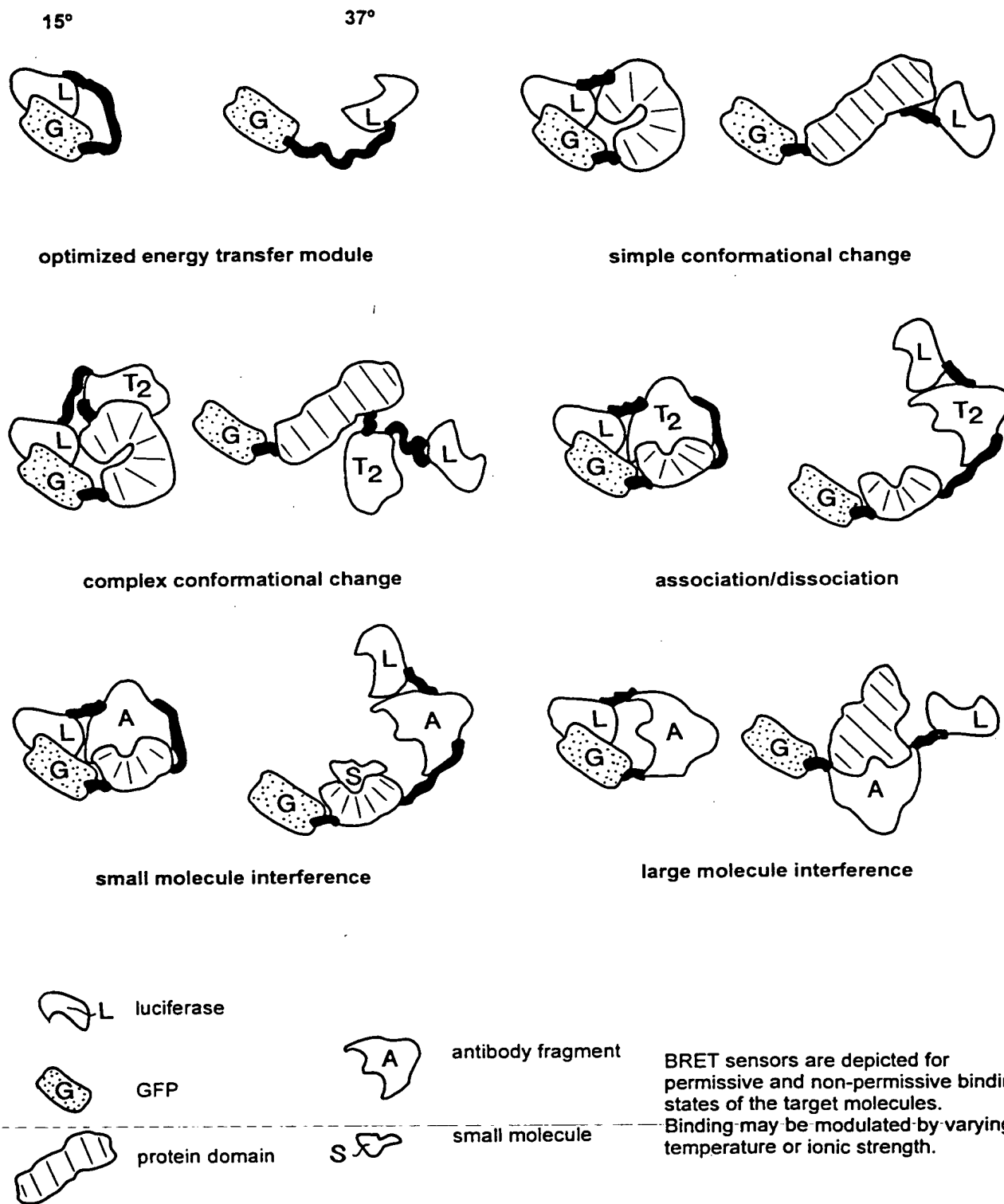


FIG. 3

Title: RENILLA REINFORMIS FLUORESCENT PROTEIN
NUCLEIC ACIDS ENCODING THE FLUORESCENT
PROTEINS AND THE USE THEREOF IN
DIAGNOSTICS, HIGH THROUGHPUT SCREENING
AND NOVELTY ITEMS.

Applicant: Bryan et al. Our Docket No.: 24729-0128
Serial No. 09/808,898 Filed: March 15, 2001

Utilization of advantageous GFP surfaces with substituted fluorophores

| | 60 | * | 80 | | |
|---------|----|-----------------|--------------------|---|----|
| RM-GFP | : | GAPLPFAFDIVSPA | FQYGNRTFTKYPNDIS-- | : | 83 |
| Pt-GFP | : | GGPLPFAFDIVSIA | FQYGNRTFTKYPDDIA-- | : | 83 |
| RR-GFP | : | GAPLPFAFDIVSVA | FSYGNRAYTGYPEEIS-- | : | 80 |
| cFP484 | : | GAPLPFSYDILSNA | FQYGNRALTKYPDDIA-- | : | 83 |
| drFP583 | : | GGPLPFAWDILSPQ | FQYGSKVYVKHPADIP-- | : | 80 |
| asFP595 | : | GGPLPFAFHILSTSC | MYGSKTFIKYVSGIP-- | : | 77 |
| dsFP483 | : | GGPLPFGWHILCPQ | FQYGNKAFVHHPDNIH-- | : | 80 |
| amFP486 | : | GGPLAFSFDILSTV | FKYGNRCFTAYPTSMP-- | : | 82 |
| zFP506 | : | GGPLPFAEDILSAA | FNYGNRVFTEYPQDIV-- | : | 80 |
| zFP538 | : | GGPLPFSEDILSAG | FKYGDRIFTEYPQDIV-- | : | 80 |
| ===== | | | | | |

FIG. 4

[illegible]

FIG. 5

Title: RENILLA REINFORMIS FLUORESCENT PROTEINS, NUCLEIC ACIDS ENCODING THE FLUORESCENT PROTEINS AND THE USE THEREOF IN DIAGNOSTICS, HIGH THROUGHPUT SCREENING AND NOVELTY ITEMS.

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Aequorea :
R mullerei :
Ptilosarcu :
R reniform :
drFP583 :
drFP593 :
dsFP483 :
cFP484 :
asFP595 :
amFP486 :
zFP538 :
zFP506 :

Aequorea :
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drFP583 :
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cFP484 :
asFP595 :
amFP486 :
zFP538 :
zFP506 :

Aequorea :
R mullerei :
Ptilosarcu :
R reniform :
drFP583 :
drFP593 :
dsFP483 :
cFP484 :
asFP595 :
amFP486 :
zFP538 :
zFP506 :

D,E,H,K,R N,Q,S,T L,I,V,M,F,Y,W A,G C,P
polar charged polar uncharged non-polar hydrophobic small not grouped

dimerization ☐ hydrophilic
surfaces ☐ hydrophobic

FIG. 6